

INHIBITION OF ANGIOGENESIS BY HIGH MOLECULAR WEIGHT KININOGEN AND PEPTIDE ANALOGS THEREOF

Abstract of the Disclosure

5 Two-chain high molecular weight kininogen, and peptide analogs thereof having homology to sites within kininogen domain 5, are potent inhibitors of angiogenesis. The peptides have the formula X₁-His-Lys-X-Lys-X₂ wherein

10 X is any amino acid,
 X₁ is from zero to twelve amino acids, more
 preferably from zero to six amino acids, most preferably
 from zero to three amino acids, and
 X₂ is from zero to twelve amino acids, more
 preferably from zero to six amino acids, most preferably
15 from zero to three amino acids.

X is preferably an amino acid having a nonpolar side chain, or a polar side chain which is uncharged at pH 6.0 to 7.0. X is most preferably Asn, Phe or His. Methods of inhibiting endothelial cell proliferation and angiogenesis are provided.